

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 41, line 22 with the following amended paragraph:

-- CIM 116 interfaces video port 412, keyboard port 414 and cursor control device
5 port 416 of remote computer 118 to MSU 112 via ~~CAT 5 cable 418~~ cabling 419 and port
400. CIM 116 transmits video signals uni-directionally from remote computer 118 to
MSU 112. However, as previously discussed, keyboard and cursor control device signals
may be transmitted bi-directionally between remote computer 118 and MSU 112. --

10 Please replace the paragraph beginning at page 42, line 6 with the following
amended paragraph:

-- During operation, video signals are transmitted from video port 412 of remote
computer 118 to port 400 of CIM 116 via ~~cable 418~~ cabling 419. From port 400, the
unidirectional video signals are transmitted to video driver 404, which converts the
15 standard red, green and blue video signals to a differential signal for transmission through
port 402 to MSU 112 via cable 114. Each color signal is transmitted via its own twisted
pair of wires contained within cable 114 (when transmitted from CIM 116 to MSU 112)
or cable 110 (when transmitted from MSU 112 to UST 108) (FIG. 1). Furthermore,
video driver 404 appends the horizontal and vertical synchronization signals to one of the
20 red, green or blue video signals to allow all five components of the video signals to be
transmitted via only three twisted ~~pair~~ pairs of wires of cables 110 or 114. That is, the
horizontal and vertical synchronization signals are each transmitted on its own color
signal – not the same color signal. --

Please replace the paragraph beginning at page 42, line 23 with the following amended paragraph:

-- In contrast, keyboard and cursor control device signals generated at remote
5 computer 118 are received by CIM CPU 406 from keyboard port 414 and cursor control
device port 416, respectively via ~~communication link 418~~ cabling 419 to port 400. Data
packets representing the keyboard and cursor control device information in received
signals are generated by CIM CPU 406. The newly generated data packets are
transmitted to UART 408, which serializes the signals and transmits them via
10 ~~communication link~~ cable 114 to MSU 112 through port 402. --

Please replace the paragraph beginning at page 43, line 9 with the following amended paragraph:

-- If the keyboard and cursor control device signals comprise a signaling control
15 signal, CIM CPU 406 causes signaling circuit 418 to emit an audible or visual signal.
That is, CIM CPU 406 contains all the required firmware to control signaling circuit 418.
Preferably, as shown in FIG. [[4A]] 4B, signaling circuit 418 comprises amplification
circuit 420, signaling device 422, and ground 423. A signaling circuit control signal
received from CIM 406 is transmitted to amplification circuit 420 where the signal is
20 amplified utilizing a transistor amplification circuit comprising resistors 424a, 424b and
424c, voltage source 426, and transistor 428. By utilizing proper combinations of
resistances for resistors 424a, 424b, and 424c and voltage value for voltage source 426,
the signaling circuit control signal achieves the desired amplification. The amplified

control signal is then sent to signaling device 422 which emits an audible or visual signal in response. Signaling circuit 418 is completed by ground connection 423. --

Please replace the paragraph beginning at page 45, line 16 with the following
5 amended paragraph:

-- Conversely, keyboard and cursor control device signals received from the local user workstation through MSU 112 and cable 114 (FIG. 1) are received via port 402. UART 408 de-serializes the serial data packet signals and transmits them to CIM CPU 406. Alternatively, the received data packet signals may be de-serialized by a non-UART
10 device. CIM CPU 406 uses the information contained in the data packet signals to emulate keyboard and mouse signals. These emulated signals are applied to keyboard port 414 and mouse port 416 through port 400 via ~~cable 418~~ cabling 419. --

Please replace the paragraph beginning at page 48, line 8 with the following
15 amended paragraph:

-- Referring next to FIG. 6, disclosed is an alternate embodiment of the intelligent, modular computer management system of the present invention in which the system is expanded to include two MSUs 112 (shown as first MSU 601 and second MSU 602), each having eight (8) inputs and thirty-two (32) outputs. This configuration allows
20 sixteen (16) USTs 108 to access and operate thirty-two (32) remote computers 118. In this alternate embodiment, each UST 108 may be linked to either first MSU ~~650~~ 601 or second MSU ~~651~~ 602 via cable 110. All signals received at UST 108 are transmitted via its connected MSU (i.e., either first MSU ~~701~~ 601 or second MSU ~~702~~ 602) to CIM 116

that is connected to the desired remote computer 118. In this alternate embodiment, CIM 116 provides interfaces for two (2) single CAT 5 cables 114 to allow it to connect to both first MSU ~~650~~ 601 and second MSU ~~651~~ 602. Thus, ~~CIM 116~~ this embodiment allows sixteen (16) user stations 100 to operate thirty-two (32) remote computers 118. In addition, this embodiment allows two (2) user workstations 100 to simultaneously access and operate the same remote computer 118. Alternatively, this embodiment allows a first user workstation 100 to inform a second user workstation 100 that a remote computer 118 is in use and, therefore, access to it is restricted. --